

AMENDMENTS TO THE SPECIFICATION WITH MARKINGS TO SHOW CHANGES MADE

Change the title to read --METHOD AND APPARATUS FOR DETERMINATION OF THE ROTOR POSITION OF AN ELECTRIC MOTOR --.

Before paragraph [0001], add the heading --BACKGROUND OF THE INVENTION--.

Before paragraph [0003], add the heading --SUMMARY OF THE INVENTION--.

Amend paragraph [0004] as follows:

[0004] -- According to the invention, this object is achieved by a method ~~having the features of claim 1~~ for determination of the angular position of a rotor, which has a number of pole pairs, of an electric motor, with the method having the following steps current is passed through at least one stator winding of the electric motor with a pulse pattern and a pulse duration such that the rotor rotates through not more than 90° divided by the number of pole pairs during the pulse duration, the angular acceleration of the rotor produced by the current that is passed through the at least one stator winding is recorded, the angular position of the rotor is determined by means of the relationship between the current that is passed through the stator winding and the angular acceleration of the rotor.[[.]] ~~and by~~

According to the invention, this object is also achieved an apparatus having the features of claim 20 for determination of the angular position of a rotor, which has a number of pole pairs, of an electric motor, with the apparatus having stator windings which are intended to have a pulse pattern of a pulse duration applied to them, an acceleration sensor, which is intended to record the angular acceleration of the rotor caused by the current passing through the stator windings, an evaluation unit, which interacts with the stator windings and with the acceleration sensor, in order to carry out a method of the invention. The statements made in the context of the apparatus in the following text also apply in the same sense to

the method, and vice versa. Neither an absolute measurement system nor an incremental position measurement system is required to determine the position of the rotor, but, instead of this, only an acceleration sensor. That measurement variable which indicates the acceleration of the rotor is available in the method by means of direct physical relationships, preferably by means of the eddy-current principle. A Ferraris sensor is preferably used for this purpose, as is known in principle, for example, from DE 101 56 782 C1.--

Before paragraph [0012], add the heading --BRIEF DESCRIPTION OF THE DRAWING--.

Before paragraph [0019], add the heading --DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS--.

Page 21, after the heading "CLAIMS" and before the first claim add --What is claimed is:--.